

# SIMPLEX FORM

OBJECT COLUMN	VARIABLE COLUMN	CONSTANT COLUMN	Identity				Sheet column	
			8004					
			11	4	0	0		OBJECTIVE ROW
			X	Y	W <sub>1</sub>	W <sub>2</sub>		VARIABLE ROW
0	W <sub>1</sub>	84	7	6	1	0	98	KEY ROW
0	W <sub>2</sub>	32	4	2	0	1	39	KEY ROW
4	Y		-11	-4	0	0	-15	INDEX ROW
0	W <sub>1</sub>	28	0	5/2	1	-3/4	11	MAIN ROW
11	X	8	1	1/2	0	1/4	39/4	MAIN ROW
		88	0	3/2	0	1/4	369/4	INDEX ROW

X = number of As

Y = number of Bs

OPERATION I

$$7X + 6Y \leq 84$$

OPERATION II

$$4X + 2Y \leq 32$$

OPERATION III

$$11X + 4Y \leq 15$$

$$w_1 = \frac{84}{7} = 12$$

$$W_2 = \frac{32}{4} = 8$$

PROCESS I	84
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PROCESS 11 32